

ECON 241 Microeconomics of Development Winter 2014

Instructor: Prof. Karthik Muralidharan (Econ 315)

Office Hours: Tue/Thu: 11am - 12pm

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This course serves as an introduction to microeconomic issues in development economics. While research in development economics uses all the standard tools of theoretical and applied microeconomics, the key concepts that have defined development economics as a field have been those of “poverty traps”, “missing markets”, “coordination failures”, and “institutional weaknesses”.

A useful place to start thinking about microeconomic questions in development economics is to ask “why do positive expected value investments not take place?” These could be investments in physical capital, human capital, adoption of new technologies, or simply reallocating factors of production within a household, but as we shall see a recurring theme in this course will be how various constraints (that are more typical in developing countries) prevent investments and activities that have positive expected value. A related theme will be the study of institutions (formal and informal) that have been evolved in developing countries in response to these constraints. Finally, the course will focus on empirically testing and estimating models as well as credibly estimating the effects of policies and programs to improve economic outcomes in developing countries.

The theoretical toolkit used in this course will cover all the standard tools of consumer and producer theory, game theory, as well as contract and agency theory – all topics covered in the core micro sequence. The empirical toolkit used in this course is very similar to that in labor economics, which is why Econ 250 is part of the Development economics sequence and you will be assumed to know the techniques covered in Econ 250.

Methods

Class time will be divided between lectures and discussions. Lectures will generally cover theoretical tools and discussions will generally cover related empirical work, but there will be some variation. An integral part of our discussions will be your own presentations on some of these papers (see below). The syllabus lists required papers for each course meeting, which you should read carefully. Recommended papers will be discussed briefly but will not be discussed in depth; you should be familiar with these, however, if you plan on doing research in development.

The three main goals for this course are to: (a) familiarize you with core research questions in development economics and provide you both with a broad overview of the literature and a detailed understanding of key papers, (b) teach you to evaluate the quality and significance of research, and (c) get you started on making progress towards your own research.

Assignments and Grading

Required assignments for the course (and grading weights) are as follows:

- 1) Two in-class presentations of papers listed as 'required' (15% each).

I will send the class an e-mail with the list of papers for student presentations (these will all be from Week 3 or later). Please email me your preferences (list at least 4 papers in descending order of preference) by Monday, 13 Jan, and I will assign presentations on a first-emailed, first-served basis. Your presentations should be 15-18 slides long and you should target presenting the paper in 30-35 minutes. You MUST send me your slides 72 hours before the class in which you will present so I can provide comments if necessary.

- 2) Two referee reports of current job-market papers (15% each).

The papers you will be writing referee reports for are all by current job market candidates so you can get a good sense of where you need to be in a few years! The referee reports should be around 3-4 pages long (1.5 spaced) and should summarize the main question asked, the methods, and the results (in a page) and spend the rest of the time critically examining the paper and its place in the relevant literature, and suggesting improvements.

A guide on how to write a referee report (by Prof. Alain de Janvry) can be obtained at:
are.berkeley.edu/courses/ARE251/2004/assignments/RRGuidelines.pdf

- 3) One 6-8 page research prospectus. One of your goals for the course should be to identify questions worthy of further examination. For this assignment you will define a specific research question, describe the literature(s) to which it connects, and propose a method for answering the question. The proposal may be for either theoretical or empirical work (or both). A 2-page outline is due in class on Tuesday, 11 February (10% of grade), following which you should meet with me to get feedback. The final prospectus will be due by 9am on Monday, 17 March (30%). You may combine this requirement with another course, but you must let me know if you expect to do this, in which case, I'll check in with the instructor of the other course, and we'll expect more progress (and a ~15-page proposal).

Referee Reports:

All 5 papers below are by Job Market candidates this year.

Please pick any 1 of the first 2 papers for your first referee report (due in class on 28 January).
For the second report, you can pick any of the last 3 papers (due in class on 11 March).

- 1) Zhao, X. (2013). To Reallocate or Not? Optimal Land Institutions under Communal Tenure: Evidence from China, Yale.
- 2) Schofield, H. (2013). The Economic Consequences of Low Caloric Intake, Harvard.
- 3) Choudhary, M. A. and A. Jain (2013). How Public Information Affects Asymmetrically Informed Lenders: Evidence from a Credit Registry Reform, MIT.

- 4) Nielson, C. (2013). Targeted Vouchers, Competition Among Schools, and the Academic Achievement of Poor Students, Yale.
- 5) Ryan, N. (2013). The Competitive Effects of Transmission Infrastructure in Indian Electricity Market, MIT.

Recommended Reading and Texts:

Most of the materials for this course will be based on journal articles, but the following texts may be useful to have.

Bardhan, Pranab, and Christopher Udry (1999) *Development Microeconomics*. Oxford University Press. Provides a concise overview of the key topics in this course (recommend that you buy this)

Deaton, Angus (1997) *The Analysis of Household Surveys: A Microeconomic Approach to Development Policy*. Johns Hopkins/World Bank Press. A must read for any empirical development economist. This is available for free download from the World Bank website at:
<http://povlibrary.worldbank.org/library/view/12798/>)

Ray, Debraj (1998) *Development Economics*. The best advanced undergraduate text on development. Read this for excellent intuitive and less technical coverage of many of the topics in the microeconomics of development

Handbook of Development Economics – Volumes 1-4. These handbooks contain excellent summary chapters of the key topics in development. Tables of contents and several downloadable chapters (from an on campus computer) are at: <http://econpapers.repec.org/bookchap/eedevhes/>

There have been several recent (sometimes heated) debates on methodology in development economics as well as discussions on what the most important research questions are. These are summarized in 2 recent issues of the JEP and the JEL respectively (both in 2010).

The JEP symposium focuses explicitly on the agenda for Development Economics and is at:
<http://www.aeaweb.org/issue.php?journal=JEP&volume=24&issue=3>

Angus Deaton – “[Understanding the Mechanisms of Economic Development](#)”

Daron Acemoglu -- “[Theory, General Equilibrium, and Political Economy in Development Economics](#)”

Dani Rodrik – “[Diagnostics before Prescription](#)”

Debraj Ray – “[Uneven Growth: A Framework for Research in Development Economics](#)”

Abhijit V. Banerjee and Esther Duflo – “[Giving Credit Where It Is Due](#)”

Mark R. Rosenzweig -- “[Microeconomic Approaches to Development: Schooling, Learning, and Growth](#)”

Readings by Lecture:

Lectures 1, 2: Overview of Development Economics, Household Models

- Required (text): Deaton Ch. 3, 4.2; Bardhan & Udry Ch. 2
- Required: (Benjamin, D. 1992), (Bharadwaj, P. 2010), (Udry, C. 1996),
- Recommended: (Bardhan, P. 1993), (Duflo, E. and A. Banerjee 2007), (Thomas, D. 1990), (Duflo, E. 2003), (Browning, M. and P. A. Chiappori 1998), (Bobonis, G. 2009), (Bergstrom, T. 1995)

Lectures 3, 4: Land, Contracting, and Property Rights

- Required (text): Bardhan & Udry Ch. 6
- Required: (Banerjee, A., P. J. Gertler and M. Ghatak 2002), (Goldstein, M. and C. Udry 2008), (Field, E. 2007), (Hornbeck, R. 2010)
- Recommended: (Shaban, R. A. 1987), (Besley, T. 1995), (Besley, T. and R. Burgess 2000), (Eswaran, M. and A. Kotwal 1985), (Zhao, X. 2013)

Lectures 5, 6: Labor Markets

- Required (text): Deaton Chapter. 4.1; Bardhan & Udry Chapter. 4
- Required: (Dasgupta, P. and D. Ray 1986), (Jayachandran, S. 2006), (Basu, K. and P. H. Van 1998), (Basu, K. 2005), (Bharadwaj, P., L. Lakdawala and N. Li 2013)
- Recommended: (Eswaran, M. and A. Kotwal 1985), (Strauss, J. 1986), (Behrman, J. R. and A. B. Deolalikar 1987), (Deaton, A. and S. Subramanian 1996), (Foster, A. D. and M. R. Rosenzweig 1994), (Swamy, A. V. 1997), (Schofield, H. 2013), (Goldberg, J. 2013)

Lectures 7-10: Human Capital - Education

- Required (text): Bardhan & Udry Chapter. 10
- Required: (Foster, A. D. and M. R. Rosenzweig 1995), (Foster, A. and M. R. Rosenzweig 1996), (Duflo, E. 2001), (Schoellman, T. 2012), (Duflo, E., R. Hanna and S. Ryan 2012), (Muralidharan, K. and V. Sundararaman 2011), (Duflo, E., P. Dupas and M. Kremer 2011), (Das, J., S. Dercon, J. Habyarimana, P. Krishnan, K. Muralidharan and V. Sundararaman 2013), (Muralidharan, K. and V. Sundararaman 2013), (Muralidharan, K. and N. Prakash 2013)
- Recommended: (Card, D. 1999), (Kremer, M., K. Muralidharan, N. Chaudhury, F. H. Rogers and J. Hammer 2005), (Chaudhury, N., J. Hammer, M. Kremer, K. Muralidharan and F. H. Rogers 2006), (Glewwe, P. and M. Kremer 2006), (Kremer, M., E. Miguel and R. Thornton 2009), (Jacoby, H. G. 2002), (Lucas, A. M. and I. Mbiti 2012), (Pop-Eleches, C. and M. Urquiola 2011), (Muralidharan, K. 2013), (Nielson, C. 2013)

Lectures 11-12: Human Capital - Health

- Required: (Miguel, E. and M. Kremer 2004), (Bleakley, H. 2007), (Bharadwaj, P., K. Loken and C. Nielson 2013), (Jayachandran, S. and A. Lleras-Muney 2009), (Thornton, R. 2008), (Cohen, J. and P. Dupas 2010), (Dupas, P. Forthcoming)
- Recommended: (Dupas, P. 2011), (Thirumurthy, H., J. G. Zivin and M. Goldstein 2006), (Acemoglu, D. and S. Johnson 2007), (Strauss, J. and D. Thomas 1998), (Glewwe, P. and E. Miguel 2008)

Lectures 13, 14: Credit and Savings

- Required (text): Deaton Ch. 6.1 – 6.3, Bardhan & Udry Chapter. 7
- Required: (Karlan, D. S. and J. Zinman 2009), (Banerjee, A., E. Duflo, R. Glennerster and C. Kinnan 2013), (Ashraf, N., D. Karlan and W. Yin 2006), (Dupas, P. and J. Robinson 2013),

- Recommended: (Stiglitz, J. E. W., Andrew 1981), (Aleem, I. 1990), (Paxson, C. 1992), (Anderson, S. and J.-M. Baland 2002), (Mullainathan, S. 2006), (Banerjee, A. 2013), (Choudhary, M. A. and A. Jain 2013)

Lectures 15, 16: Risk and Insurance

- Required (text): Deaton Chapter. 6.4
- Required: (Townsend, R. M. 1994), (Jack, W. and T. Suri 2014), (Bryan, G. 2013), (Mobarak, M. A. and M. R. Rosenzweig 2012)
- Recommended: (Udry, C. 1994), (Udry, C. 1995), (Dercon, S. and P. Krishnan 2000), (Ligon, E., J. P. Thomas and T. Worrall 2002) (Gine, X. and D. Yang 2009)

Lecture 17: Migration

- Required (text): Bardhan & Udry Chapter. 5
- Required: (Bryan, G., S. Chowdhury and M. A. Mobarak 2013), (Bazzi, S. 2013)
- Recommended: (Rosenzweig, M. R. and O. Stark 1989), (Pritchett, L. 2006), (Yang, D. 2011)

Lectures 18: Anti-Poverty Programs

- Required: (Niehaus, P., A. Atanassova, M. Bertrand and S. Mullainathan 2013), (Alatas, V., A. Banerjee, R. Hanna, B. Olken and J. Tobias 2012), (Haushofer, J. and J. Shapiro 2013)
- Recommended: (Garfinkel, I. 1973), (Akerlof, G. 1978), (Currie, J. and F. Gahvari 2008)

Lectures 19, 20: Service Delivery, and Infrastructure

- Required: (Hart, O., A. Shleifer and R. W. Vishny 1997), (Galiani, S., P. J. Gertler and E. Schargrodsky 2005), (Dinkelman, T. 2011), (Donaldson, D. Forthcoming), (Muralidharan, K., P. Niehaus and S. Sukhtankar 2014)
- Recommended: (Besley, T. and M. Ghatak 2001), (Besley, T. and M. Ghatak 2005), (Bjorkman, M. and J. Svensson 2009), (Duflo, E. and R. Pande 2007), (Ryan, N. 2013)

Reading List:

- ACEMOGLU, D., and S. JOHNSON (2007): "Disease and Development: The Effect of Life Expectancy on Growth," *Journal of Political Economy*, 115, 925-985.
- AKERLOF, G. (1978): "The Economics of 'Tagging' as Applied to the Optimal Income Tax, Welfare Programs, and Manpower Planning," *American Economic Review*, 68, 8-19.
- ALATAS, V., A. BANERJEE, R. HANNA, B. OLKEN, and J. TOBIAS (2012): "Targeting the Poor: Evidence from a Field Experiment in Indonesia," *American Economic Review*, 102, 1206-1240.
- ALEEM, I. (1990): "Imperfect Information, Screening, and the Cost of Informal Lending: A Study of a Rural Credit Market in Pakistan," *World Bank Economic Review*, 4, 329-349.
- ANDERSON, S., and J.-M. BALAND (2002): "The Economics of Roscas and Intrahousehold Resource Allocation," *The Quarterly Journal of Economics*, 117, 963-995.

- ASHRAF, N., D. KARLAN, and W. YIN (2006): "Tying Odysseus to the Mast Evidence from a Commitment Savings Product in the Philippines," *Quarterly Journal of Economics*, 121, 635-672.
- BANERJEE, A. (2013): "Microcredit under the Microscope: What Have We Learned in the Past Two Decades, and What Do We Need to Know?," *Annual Review of Economics*, 5, 487-519.
- BANERJEE, A., E. DUFLO, R. GLENNERSTER, and C. KINNAN (2013): "The Miracle of Microfinance: Evidence from a Randomized Evaluation," MIT.
- BANERJEE, A., P. J. GERTLER, and M. GHATAK (2002): "Empowerment and Efficiency: Tenancy Reform in West Bengal," *Journal of Political Economy*, 110, 239-280.
- BARDHAN, P. (1993): "Economics of Development and the Development of Economics," *Journal of Economic Perspectives*, 7, 129-142.
- BASU, K. (2005): "Child Labor and the Law: Notes on Possible Pathologies," *Economics Letters*, 87, 169-174.
- BASU, K., and P. H. VAN (1998): "The Economics of Child Labor," *American Economic Review*, 88, 412-427.
- BAZZI, S. (2013): "Wealth Heterogeneity, Income Shocks, and International Migration," Boston University.
- BEHRMAN, J. R., and A. B. DEOLALIKAR (1987): "Will Developing Country Nutrition Improve with Income? A Case Study for Rural South India," *The Journal of Political Economy*, 95, 492-507.
- BENJAMIN, D. (1992): "Household Composition, Labor Markets, and Labor Demand: Testing for Separation in Agricultural Household Models," *Econometrica*, 60, 287-322.
- BERGSTROM, T. (1995): "A Survey of Theories of the Family," in *Handbook of Population Economics*, ed. by M. Rosenzweig, and O. Stark: North Holland, 21-74.
- BESLEY, T. (1995): "Property Rights and Investment Incentives: Theory and Evidence from Ghana," *The Journal of Political Economy*, 103, 903-937.
- BESLEY, T., and R. BURGESS (2000): "Land Reform, Poverty Reduction, and Growth: Evidence from India," *Quarterly Journal of Economics*, 115, 389-430.
- BESLEY, T., and M. GHATAK (2001): "Government Versus Private Ownership of Public Goods," *Quarterly Journal of Economics*, 116, 1343-1372.
- (2005): "Competition and Incentives with Motivated Agents," *American Economic Review*, 95, 616-636.
- BHARADWAJ, P. (2010): "Fertility and Rural Labor Market Inefficiencies: Evidence from India," UC San Diego.
- BHARADWAJ, P., L. LAKDAWALA, and N. LI (2013): "Perverse Consequences of Well Intentioned Regulation: Evidence from India's Child Labor Ban," UC San Diego.
- BHARADWAJ, P., K. LOKEN, and C. NIELSON (2013): "Early Life Health Interventions and Academic Achievement," *American Economic Review*, 5, 1862-1891.
- BJORKMAN, M., and J. SVENSSON (2009): "Power to the People: Evidence from a Randomized Field Experiment on Community-Based Monitoring in Uganda," *Quarterly Journal of Economics*, 124, 735-769.
- BLEAKLEY, H. (2007): "Disease and Development: Evidence from the Eradication of Hookworm in the American South," *Quarterly Journal of Economics*, 122, 73-117.
- BOBONIS, G. (2009): "Is the Allocation of Resources within the Household Efficient? New Evidence from a Randomized Experiment," *Journal of Political Economy*, 117, 453-503.
- BROWNING, M., and P. A. CHIAPPORI (1998): "Efficient Intra-Household Allocations: A General Characterization and Empirical Tests " *Econometrica*, 66, 1241-1278.

- BRYAN, G. (2013): "Ambiguity Aversion Decreases Demand for Partial Insurance: Evidence from African Farmers," LSE.
- BRYAN, G., S. CHOWDHURY, and M. A. MOBARAK (2013): "Escaping Famine through Seasonal Migration," LSE.
- CARD, D. (1999): "The Casual Effect of Education on Earnings," *Handbook of Labor Economics*, 3, 1801-1863.
- CHAUDHURY, N., J. HAMMER, M. KREMER, K. MURALIDHARAN, and F. H. ROGERS (2006): "Missing in Action: Teacher and Health Worker Absence in Developing Countries," *Journal of Economic Perspectives*, 20, 91-116.
- CHOUDHARY, M. A., and A. JAIN (2013): "How Public Information Affects Asymmetrically Informed Lenders: Evidence from a Credit Registry Reform," MIT.
- COHEN, J., and P. DUPAS (2010): "Free Distribution or Cost-Sharing? Evidence from a Randomized Malaria Prevention Experiment," *Quarterly Journal of Economics*, 125, 1-45.
- CURRIE, J., and F. GAHVARI (2008): "Transfers in Cash and in Kind: Theory Meets the Data," *Journal of Economic Literature*, 46, 333-383.
- DAS, J., S. DERCON, J. HABYARIMANA, P. KRISHNAN, K. MURALIDHARAN, and V. SUNDARARAMAN (2013): "School Inputs, Household Substitution, and Test Scores," *American Economic Journal: Applied Economics*, 5, 29-57.
- DASGUPTA, P., and D. RAY (1986): "Inequality as a Determinant of Malnutrition and Unemployment: Theory," *The Economic Journal*, 96, 1011-1034.
- DEATON, A., and S. SUBRAMANIAN (1996): "The Demand for Food and Calories," *Journal of Political Economy*, 104, 133-162.
- DERCON, S., and P. KRISHNAN (2000): "In Sickness and in Health: Risk Sharing within Rural Households in Rural Ethiopia," *Journal of Political Economy*, 108, 688-727.
- DINKELMAN, T. (2011): "The Effects of Rural Electrification on Employment: New Evidence from South Africa," *American Economic Review*, 101, 3078-3108.
- DONALDSON, D. (Forthcoming): "Railroads of the Raj: Estimating the Impact of Transportation Infrastructure," *American Economic Review*.
- DUFLO, E. (2001): "Schooling and Labor Market Consequences of School Construction in Indonesia: Evidence from an Unusual Policy Experiment," *The American Economic Review*, 91, 795-813.
- (2003): "Grandmothers and Granddaughters: Old-Age Pensions and Intrahousehold Allocation in South Africa," *World Bank Economic Review*, 17, 1-25.
- DUFLO, E., and A. BANERJEE (2007): "The Economic Lives of the Poor," *Journal of Economic Perspectives*, 21, 141-167.
- DUFLO, E., P. DUPAS, and M. KREMER (2011): "Peer Effects, Teacher Incentives, and the Impact of Tracking: Evidence from a Randomized Evaluation in Kenya," *American Economic Review*, 101, 1739-74.
- DUFLO, E., R. HANNA, and S. RYAN (2012): "Incentives Work: Getting Teachers to Come to School," *American Economic Review*, 102, 1241-78.
- DUFLO, E., and R. PANDE (2007): "Dams," *Quarterly Journal of Economics*, 122, 601-646.
- DUPAS, P. (2011): "Health Behavior in Developing Countries," *Annual Review of Economics*, 3.
- (Forthcoming): "Short-Run Subsidies and Long-Run Adoption of New Health Products: Experimental Evidence from Kenya," *Econometrica*.
- DUPAS, P., and J. ROBINSON (2013): "Why Don't the Poor Save More? Evidence from Health Savings Experiments," *American Economic Review*, 103, 1138-71.
- ESWARAN, M., and A. KOTWAL (1985): "A Theory of Contractual Structure in Agriculture," *The American Economic Review*, 75, 352-367.

- ESWARAN, M., and A. KOTWAL (1985): "A Theory of Two-Tier Labor Markets in Agrarian Economies," *The American Economic Review*, 75, 162-177.
- FIELD, E. (2007): "Entitled to Work: Urban Property Rights and Labor Supply in Peru," *The Quarterly Journal of Economics*, 122, 1561-1602.
- FOSTER, A., and M. R. ROSENZWEIG (1996): "Technical Change and Human-Capital Returns and Investments: Evidence from the Green Revolution," *The American Economic Review*, 86, 931-953.
- FOSTER, A. D., and M. R. ROSENZWEIG (1994): "A Test for Moral Hazard in the Labor Market: Contractual Arrangements, Effort, and Health," *The Review of Economics and Statistics*, 76, 213-227.
- FOSTER, A. D., and M. R. ROSENZWEIG (1995): "Learning by Doing and Learning from Others: Human Capital and Technical Change in Agriculture," *Journal of Political Economy*, 103, 1176-1209.
- GALIANI, S., P. J. GERTLER, and E. SCHARGRODSKY (2005): "Water for Life: The Impact of the Privatization of Water Services on Child Mortality," *Journal of Political Economy*, 113, 83-120.
- GARFINKEL, I. (1973): "Is in-Kind Redistribution Efficient?," *Quarterly Journal of Economics*, 87, 320-330.
- GINE, X., and D. YANG (2009): "Insurance, Credit, and Technology Adoption: Field Experimental Evidence from Malawi," *Journal of Development Economics*, 89, 1-11.
- GLEWWE, P., and M. KREMER (2006): "Schools, Teachers, and Education Outcomes in Developing Countries," in *Handbook of the Economics of Education*, ed. by E. Hanushek, and F. Welch: North-Holland.
- GLEWWE, P., and E. MIGUEL (2008): "The Impact of Child Health and Nutrition on Education in Less Developed Countries," in *Handbook of Development Economics*, ed. by P. T. Schultz, and J. Strauss: North-Holland.
- GOLDBERG, J. (2013): "Kwacha Gonna Do? Experimental Evidence About Labor Supply in Rural Malawi," University of Maryland.
- GOLDSTEIN, M., and C. UDRY (2008): "The Profits of Power: Land Rights and Agricultural Investment in Ghana," *Journal of Political Economy*, 116, 981-1022.
- HART, O., A. SHLEIFER, and R. W. VISHNY (1997): "The Proper Scope of Government: Theory and an Application to Prisons," *Quarterly Journal of Economics*, 112, 1127-1161.
- HAUSHOFER, J., and J. SHAPIRO (2013): "Welfare Effects of Unconditional Cash Transfers: Evidence from a Randomized Controlled Trial in Kenya," MIT.
- HORNBECK, R. (2010): "Barbed Wire: Property Rights and Agricultural Development," *Quarterly Journal of Economics*, 125, 767-810.
- JACK, W., and T. SURI (2014): "Risk Sharing and Transaction Costs: Evidence from Kenya's Mobile Money Revolution," *American Economic Review*, 104, 183-223.
- JACOBY, H. G. (2002): "Is There an Intrahousehold 'Flypaper Effect'? Evidence from a School Feeding Programme," *The Economic Journal*, 112, 196-221.
- JAYACHANDRAN, S. (2006): "Selling Labor Low: Wage Responses to Productivity Shocks in Developing Countries," *The Journal of Political Economy*, 114, 538-575.
- JAYACHANDRAN, S., and A. LLERAS-MUNEY (2009): "Life Expectancy and Human Capital Investments: Evidence from Maternal Mortality Declines," *Quarterly Journal of Economics*, 124, 349-397.
- KARLAN, D. S., and J. ZINMAN (2009): "Observing Unobservables: Identifying Information Asymmetries with a Consumer Credit Field Experiment," *Econometrica*, 77, 1993-2008.

- KREMER, M., E. MIGUEL, and R. THORNTON (2009): "Incentives to Learn," *Review of Economics and Statistics*, 91, 437-456.
- KREMER, M., K. MURALIDHARAN, N. CHAUDHURY, F. H. ROGERS, and J. HAMMER (2005): "Teacher Absence in India: A Snapshot," *Journal of the European Economic Association*, 3, 658-67.
- LIGON, E., J. P. THOMAS, and T. WORRALL (2002): "Informal Insurance Arrangements with Limited Commitment: Theory and Evidence from Village Economies," *Review of Economic Studies*, 69, 209-244.
- LUCAS, A. M., and I. MBITI (2012): "Effects of School Quality on Student Achievement: Discontinuity Evidence from Kenya," Southern Methodist University.
- MIGUEL, E., and M. KREMER (2004): "Worms: Identifying Impacts on Education and Health in the Presence of Treatment Externalities," *Econometrica*, 72, 159-217.
- MOBARAK, M. A., and M. R. ROSENZWEIG (2012): "Selling Formal Insurance to the Informally Insured," Yale.
- MULLAINATHAN, S. (2006): "Development Economics through the Lens of Psychology," Harvard University.
- MURALIDHARAN, K. (2013): "Priorities for Primary Education Policy in India's 12th Five-Year Plan," *India Policy Forum*, 9, 1-46.
- MURALIDHARAN, K., P. NIEHAUS, and S. SUKHTANKAR (2014): "Payments Infrastructure and the Performance of Public Programs," UC San Diego.
- MURALIDHARAN, K., and N. PRAKASH (2013): "Cycling to School: Increasing Secondary School Enrollment for Girls in India," NBER Working Paper 19305.
- MURALIDHARAN, K., and V. SUNDARARAMAN (2011): "Teacher Performance Pay: Experimental Evidence from India," *Journal of Political Economy*, 119, 39-77.
- (2013): "The Aggregate Effects of School Choice: Evidence from a Two-Stage Experiment," UC San Diego.
- NIEHAUS, P., A. ATANASSOVA, M. BERTRAND, and S. MULLAINATHAN (2013): "Targeting with Agents," *American Economic Journal: Economic Policy*, 5, 206-238.
- NIELSON, C. (2013): "Targeted Vouchers, Competition among Schools, and the Academic Achievement of Poor Students," Yale.
- PAXSON, C. (1992): "Using Weather Variability to Estimate the Response of Savings to Transitory Income in Thailand," *The American Economic Review*, 82, 15-33.
- POP-ELECHES, C., and M. URQUIOLA (2011): "Going to a Better School: Effects and Behavioral Responses," National Bureau of Economic Research. Working Paper 16886.
- PRITCHETT, L. (2006): *Let Their People Come: Breaking the Gridlock on Global Labor Mobility*. Washington DC: Center for Global Development.
- ROSENZWEIG, M. R., and O. STARK (1989): "Consumption Smoothing, Migration, and Marriage: Evidence from Rural India," *The Journal of Political Economy*, 97, 905-926.
- RYAN, N. (2013): "The Competitive Effects of Transmission Infrastructure in Indian Electricity Market," MIT.
- SCHOELLMAN, T. (2012): "Education Quality and Development Accounting," *Review of Economic Studies*, 79, 388-417.
- SCHOFIELD, H. (2013): "The Economic Consequences of Low Caloric Intake," Harvard.
- SHABAN, R. A. (1987): "Testing between Competing Models of Sharecropping," *The Journal of Political Economy*, 95, 893-920.
- STIGLITZ, J. E. W., ANDREW (1981): "Credit Rationing in Markets with Imperfect Information," *The American Economic Review*, 71, 393-410.

- STRAUSS, J. (1986): "Does Better Nutrition Raise Farm Productivity?," *The Journal of Political Economy*, 94, 297-320.
- STRAUSS, J., and D. THOMAS (1998): "Health, Nutrition, and Economic Development," *Journal of Economic Literature*, 36, 766-817.
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